

● [link](#) [save](#)

LOCUS T61718 102 bp mRNA linear EST 14-FEB-1995
 DEFINITION yb92e07.r1 Stratagene liver (#937224) Homo sapiens cDNA clone
 IMAGE:78660 5' similar to SP:B42997 B42997
 RETINOBLASTOMA-ASSOCIATED PROTEIN 2 - ;, mRNA sequence.
 ACCESSION T61718
 VERSION T61718.1 GI:664961
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 102)
 AUTHORS Hillier,L., Lennon,G., Becker,M., Bonaldo,M.F., Chiapelli,B.,
 Chissoe,S., Dietrich,N., DuBuque,T., Favello,A., Gish,W., Hawkins
 ,M., Hultman,M., Kucaba,T., Lacy,M., Le,M., Le,N., Mardis,E., Moore
 ,B., Morris,M., Parsons,J., Prange,C., Rifkin,L., Rohlfing,T.,
 Schellenberg,K., Soares,M.B., Tan,F., Thierry-Meg,J., Trevaskis,E.,
 Underwood,K., Wohldmann,P., Waterston,R., Wilson,R. and Marra,M.
 TITLE Generation and analysis of 280,000 human expressed sequence tags
 JOURNAL Genome Res. 6 (9), 807-828 (1996)
 MEDLINE 97044478
 COMMENT Contact: Wilson RK
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@watson.wustl.edu
 Insert Size: 34
 High quality sequence stops: 66 Source: IMAGE Consortium, LLNL This
 clone is available royalty-free through LLNL ; contact the IMAGE
 Consortium (info@image.llnl.gov) for further information.
 Seq primer: M13RP1
 High quality sequence stop: 66.
 FEATURES Location/Qualifiers
 source 1..102
 /organism="Homo sapiens"
 /db_xref="GDB: 498405"
 /db_xref="taxon:9606"
 /clone="IMAGE:78660"
 /clone_lib="Stratagene liver (#937224)"
 /sex="male"
 /dev_stage="49 years old"
 /lab_host="SOLR cells (kanamycin resistant)"
 /note="Organ: liver; Vector: pBluescript SK; Site_1: EcoRI
 ; Site_2: XhoI; Cloned unidirectionally. Primer: Oligo
 dT. Hepatectomy from normal male caucasian. Average insert
 size: 1.1 kb; Uni-ZAP XR Vector; -5' adaptor sequence: 5'
 GAATTCGGCACCAG 3' -3' adaptor sequence: 5'
 CTCGAGTTTTTTTTTTTTTTTTTTT 3'"
 BASE COUNT 33 a 12 c 26 g 29 t 2 others
 ORIGIN
 1 acgagggaaa aatcaaaaaa tgtatgaagc tagtattaaa gattctgatg tcgaaggtgg
 61 agaggtcctt tacttggtgc attactgcng atggcatntt at
 //

● [link](#) [save](#)

LOCUS R14337 395 bp mRNA linear EST 12-APR-1995
 DEFINITION yf79b11.r1 Soares infant brain 1NIB Homo sapiens cDNA clone
 IMAGE:28436 5', mRNA sequence.
 ACCESSION R14337
 VERSION R14337.1 GI:767413
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 395)
 AUTHORS Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman
 ,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons,J.,
 Rifkin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston
 ,R., Williamson,A., Wohldmann,P. and Wilson,R.
 TITLE The WashU-Merck EST Project
 JOURNAL Unpublished (1995)
 COMMENT Contact: Wilson RK
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@watson.wustl.edu
 Insert Size: 1350
 High quality sequence stops: 298 Source: IMAGE Consortium, LLNL
 This clone is available royalty-free through LLNL ; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 Insert Length: 1350 Std Error: 0.00
 Seq primer: M13RP1
 High quality sequence stop: 298.
 FEATURES Location/Qualifiers
source 1..395
 /organism="Homo sapiens"
 /db_xref="GDB: 400783"
 /db_xref="taxon:9606"
 /clone="IMAGE:28436"
 /clone_lib="Soares infant brain 1NIB"
 /sex="female"
 /dev_stage="73 days post natal"
 /lab_host="DH10B (ampicillin resistant)"
 /note="Organ: whole brain; Vector: Lafmid BA; Site_1: Not
 I; Site_2: Hind III; 1st strand cDNA was primed with a Not
 I - oligo(dT) primer [5'
 AACTGGAAGAATTCGCGGCCGCAGGAATTTTTTTTTTTTTTTTTTTT 3'];
 double-stranded cDNA was ligated to Hind III adaptors
 (Pharmacia), digested with Not I and directionally cloned
 into the Not I and Hind III sites of the Lafmid BA vector.
 Library went through one round of normalization. Library
 constructed by Bento Soares and M.Fatima Bonaldo."
 BASE COUNT 129 a 51 c 79 g 133 t 3 others
 ORIGIN
 1 aaagagtaac tttgattacg taaaaagcct ttgaagtatt ttaatgaaca ctagtctttg
 61 ctattggtaa gaaatctgct tgttttatta aaatgcttaa ttgaagaaaa taatattctt
 121 ctgtgattaa aattaggaag aaatagaacc atttccagaa gaaagggaga actttcttca
 181 gcaattgtac aaatttatgg aagatagagg tgagtatttt ttatttgaat ttaacgtggg
 241 taagttttgg gacagataat taggtatctt aaaaataagg aataggaatt ttgtttactg
 301 aactttatgt catcaggtaa ttatgggcng tcttttttga ctctggatat caccngcacc
 361 ctggcctagc gccntgtcca cgggtaacca ggtag
 //

● [link](#) ● [save](#)

LOCUS R27405 324 bp mRNA linear EST 24-APR-1995
 DEFINITION yh46c12.r1 Soares placenta Nb2HP Homo sapiens cDNA clone
 IMAGE:132790 5', mRNA sequence.
 ACCESSION R27405
 VERSION R27405.1 GI:783540
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 324)
 AUTHORS Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman
 ,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons,J.,
 Rifkin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston
 ,R., Williamson,A., Wohldmann,P. and Wilson,R.
 TITLE The WashU-Merck EST Project
 JOURNAL Unpublished (1995)
 COMMENT Contact: Wilson RK
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@watson.wustl.edu
 Insert Size: 1638
 High quality sequence stops: 227
 Source: IMAGE Consortium, LLNL
 This clone is available royalty-free through LLNL ; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 Insert Length: 1638 Std Error: 0.00
 Seq primer: M13RP1
 High quality sequence stop: 227.
 FEATURES Location/Qualifiers
source 1..324
 /organism="Homo sapiens"
 /db_xref="GDB: 538432"
 /db_xref="taxon:9606"
 /clone="IMAGE:132790"
 /clone_lib="Soares placenta Nb2HP"
 /sex="Female"
 /dev_stage="placenta obtained at birth (full term)"
 /lab_host="DH10B (ampicillin resistant)"
 /note="Organ: placenta; Vector: pT7T3D (Pharmacia) with a
 modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st
 strand cDNA was primed with a Not I - oligo(dT) primer [5'
 AACTGGAAGAATTCGCGGCCGAGGAATTTTTTTTTTTTTTTTTT 3'],
 double-stranded cDNA was ligated to Eco RI adaptors
 (Pharmacia), digested with Not I and cloned into the Not I
 and Eco RI sites of the modified pT7T3 vector. Library
 went through one round of normalization. Library
 constructed by Bento Soares and M.Fatima Bonaldo. "
 BASE COUNT 103 a 51 c 61 g 105 t 4 others
 ORIGIN
 1 ccagtttgcg ataagttgag agtaggtatt cttgaacctg tgatcctgat ttgaaaaata
 61 gctctctcat atggtaaaaa aaacaaaaca aaacaaaaca aaaccacgaa cagtcttgct
 121 agtccctttt ctcatatggg aatttttact gtggggattc taactattgg gatacttttt
 181 aaggcatatt cctctataaa acataaaatg tctaggactt acctgggttt tgaacagctt
 241 agtggtaaaa gggtaacttt gnattacgta aaaaggcctt tgnaaggat tttnaatgga
 301 acacttgggc ttgcntatt gggg
 //

link • save

LOCUS R40663 412 bp mRNA linear EST 22-MAY-1995
 DEFINITION yf79b11.s1 Soares infant brain 1NIB Homo sapiens cDNA clone
 IMAGE:28436 3', mRNA sequence.
 ACCESSION R40663
 VERSION R40663.1 GI:821001
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 412)
 AUTHORS Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman,
 M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons,J.,
 Rifkin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston
 ,R., Williamson,A., Wohldmann,P. and Wilson,R.
 TITLE The WashU-Merck EST Project
 JOURNAL Unpublished (1995)
 COMMENT On May 5, 1995 this sequence version replaced gi:798279.
 Contact: Wilson RK
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@watson.wustl.edu
 Insert Size: 1350
 High quality sequence stops: 225 Source: IMAGE Consortium, LLNL
 This clone is available royalty-free through LLNL ; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 Insert Length: 1350 Std Error: 0.00
 Seq primer: Promega -21m13
 High quality sequence stop: 225.
 FEATURES
 source Location/Qualifiers
 1..412
 /organism="Homo sapiens"
 /db_xref="GDB: 400783"
 /db_xref="taxon:9606"
 /clone="IMAGE:28436"
 /clone_lib="Soares infant brain 1NIB"
 /sex="female"
 /dev_stage="73 days post natal"
 /lab_host="DH10B (ampicillin resistant)"
 /note="Organ: whole brain; Vector: Lafmid BA; Site_1: Not
 I; Site_2: Hind III; 1st strand cDNA was primed with a Not
 I - oligo(dT) primer [5'
 AACTGGAAGAATTGCGGCCGCGCAGGAATTTTTTTTTTTTTTTTTTTT 3'];
 double-stranded cDNA was ligated to Hind III adaptors
 (Pharmacia), digested with Not I and directionally cloned
 into the Not I and Hind III sites of the Lafmid BA vector.
 Library went through one round of normalization. Library
 constructed by Bento Soares and M.Fatima Bonaldo."
 BASE COUNT 126 a 71 c 78 g 135 t 2 others
 ORIGIN
 1 tttttttttt attctaacac aagaaaacgc aaggcaagga tgctaaatca aacaaacat
 61 gagaaagtgg tagaggaggt aacaggggag gggtagaatg cctcatatgg ccatttctac
 121 aaaatatatg actggcttaa tcatattttt tcattctttt ctagtattag attttattca
 181 ttttctttgc tttttcattt atcttatata agagcctatg aaacagcata cttcttaggg
 241 ccaaccctcc attcatgtaa agaaataata caagaattca aaggacattt tatattggaa
 301 aaaggaaata tacttatatt gtgttagggc gttgttatcc tttatggaaa cctaaacctg
 361 gacaaccggg gtcggtttct actcctcggg cnttccattc gggggntttg gg
 //

THIS PAGE BLANK (USPTO)

● [link](#) ● [save](#)

LOCUS R44970 480 bp mRNA linear EST 22-MAY-1995
 DEFINITION yg33e02.s1 Soares infant brain 1NIB Homo sapiens cDNA clone
 IMAGE:34227 3', mRNA sequence.
 ACCESSION R44970
 VERSION R44970.1 GI:824325
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 480)
 AUTHORS Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman
 ,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons,J.,
 Rifkin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston
 ,R., Williamson,A., Wohldmann,P. and Wilson,R.
 TITLE The WashU-Merck EST Project
 JOURNAL Unpublished (1995)
 COMMENT On May 9, 1995 this sequence version replaced gi:803694.
 Contact: Wilson RK
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@watson.wustl.edu
 Insert Size: 1365
 High quality sequence stops: 397 Source: IMAGE Consortium, LLNL
 This clone is available royalty-free through LLNL ; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 Insert Length: 1365 Std Error: 0.00
 Seq primer: Promega -21ml3
 High quality sequence stop: 397.
 FEATURES
 source Location/Qualifiers
 1..480
 /organism="Homo sapiens"
 /db_xref="GDB: 406574"
 /db_xref="taxon:9606"
 /clone="IMAGE:34227"
 /clone_lib="Soares infant brain 1NIB"
 /sex="female"
 /dev_stage="73 days post natal"
 /lab_host="DH10B (ampicillin resistant)"
 /note="Organ: whole brain; Vector: Lafmid BA; Site_1: Not
 I; Site_2: Hind III; 1st strand cDNA was primed with a Not
 I - oligo(dT) primer [5'
 AACTGGAAGAATTCGCGGCCGAGGAATTTTTTTTTTTTTTTTTT 3'];
 double-stranded cDNA was ligated to Hind III adaptors
 (Pharmacia), digested with Not I and directionally cloned
 into the Not I and Hind III sites of the Lafmid BA vector.
 Library went through one round of normalization. Library
 constructed by Bento Soares and M.Fatima Bonaldo."
 BASE COUNT 110 a 84 c 125 g 160 t 1 others
 ORIGIN
 1 tatttcctct tctgtcgttc cccaactggt agatgtttct tagttgaggc gtccgttttg
 61 tgaatatgag aataaagcac gcatttggtg ctgaataagt tgatccttgc tttctaaaga
 121 ctccagcaaa cattctaagt tagtggtttt cctggtgaga atctctatgt gtaatgagag
 181 atttgctgtt gagattgtgt tatacatgtg taagtatgaa tgcagacaaa aggttgaagg
 241 attactagtg tagggaatga aggacctgct ccatctgtaa tcttgttttg cttgctcttc
 301 cttgcccttc tctaccacgg ttgggtcatt ctactgccca agggaacctg gacaatgtta
 361 ctcttgcttg ggcgttttaa gccttggttg tgtaagggca ttacaggacc agggggaagg
 421 agtccttcat ccatactcca gtggatggaa ggatgagggg tggtagggg gnaacagggt

//

THIS PAGE BLANK (USPTO)

[link](#) ● [save](#)

LOCUS H08612 398 bp mRNA linear EST 23-JUN-1995
 DEFINITION yl94g10.r1 Soares infant brain 1NIB Homo sapiens cDNA clone
 IMAGE:45995 5' similar to gb:S66427 RETINOBLASTOMA BINDING PROTEIN
 1 (HUMAN);, mRNA sequence.
 ACCESSION H08612
 VERSION H08612.1 GI:873434
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 398)
 AUTHORS Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman
 ,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons,J.,
 Rifkin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston
 ,R., Williamson,A., Wohldmann,P. and Wilson,R.
 TITLE The WashU-Merck EST Project
 JOURNAL Unpublished (1995)
 COMMENT Contact: Wilson RK
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@watson.wustl.edu
 Insert Size: 2081
 High quality sequence stops: 124
 Source: IMAGE Consortium, LLNL
 This clone is available royalty-free through LLNL ; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 Insert Length: 2081 Std Error: 0.00
 Seq primer: M13RP1
 High quality sequence stop: 124.
 FEATURES Location/Qualifiers
source 1..398
 /organism="Homo sapiens"
 /db_xref="GDB: 418536"
 /db_xref="taxon:9606"
 /clone="IMAGE:45995"
 /clone_lib="Soares infant brain 1NIB"
 /sex="female"
 /dev_stage="73 days post natal"
 /lab_host="DH10B (ampicillin resistant)"
 /note="Organ: whole brain; Vector: Lafmid BA; Site_1: Not
 I; Site_2: Hind III; 1st strand cDNA was primed with a Not
 I - oligo(dT) primer [5'
 AACTGGAAGAATTTCGCGCCGCGAGGAATTTTTTTTTTTTTTTTTTTT 3'];
 double-stranded cDNA was ligated to Hind III adaptors
 (Pharmacia), digested with Not I and directionally cloned
 into the Not I and Hind III sites of the Lafmid BA vector.
 Library went through one round of normalization. Library
 constructed by Bento Soares and M.Fatima Bonaldo."
 BASE COUNT 141 a 73 c 90 g 91 t 3 others
 ORIGIN
 1 aaaggcacia atagtagtga tagtgaagaa ctttcagctg gtgaaagtat aactaagagt
 61 cagccagtca aatcagtttc cactggaatg aagtctcata gtaccaaate tcccgcagg
 121 acgcagctcc agggaaatgt ggaagaatg gtgataagga tctgatctc aaggaacca
 181 gtaatcgatt acccaaagtt tacaaatgga gttttcagat gtcggacctg ggaaatatga
 241 caagtgccga acgcatcaca attcttcaag aaaaacttca agaaatcaga aaacattatc
 301 tgtcattaaa atctgaagta gcttccattg atcggagggn gaaagcgttt taaagnagga
 361 aaggagnnga ggaaagtgcg gcttacatcc tcattcct

//

THIS PAGE BLANK (use)

● [link](#) ● [save](#)

LOCUS H38607 437 bp mRNA linear EST 16-AUG-1995
 DEFINITION yp48e07.r1 Soares retina N2b4HR Homo sapiens cDNA clone
 IMAGE:190692 5', mRNA sequence.
 ACCESSION H38607
 VERSION H38607.1 GI:908106
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 437)
 AUTHORS Hillier, L., Clark, N., Dubuque, T., Elliston, K., Hawkins, M., Holman
 , M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M., Parsons, J.,
 Rifkin, L., Rohlfing, T., Soares, M., Tan, F., Trevaskis, E., Waterston
 , R., Williamson, A., Wohlmann, P. and Wilson, R.
 TITLE The WashU-Merck EST Project
 JOURNAL Unpublished (1995)
 COMMENT Contact: Wilson RK
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@watson.wustl.edu
 Insert Size: 2679
 High quality sequence stops: 341
 Source: IMAGE Consortium, LLNL
 This clone is available royalty-free through LLNL ; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 Insert Length: 2679 Std Error: 0.00
 Seq primer: M13RP1
 High quality sequence stop: 341.
 FEATURES
 source Location/Qualifiers
 1..437
 /organism="Homo sapiens"
 /db_xref="GDB: 3847101"
 /db_xref="taxon:9606"
 /clone="IMAGE:190692"
 /clone_lib="Soares retina N2b4HR"
 /sex="male"
 /tissue_type="retina"
 /dev_stage="55 year old"
 /lab_host="DH10B (ampicillin resistant)"
 /note="Organ: eye; Vector: pT7T3D (Pharmacia) with a
 modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st
 strand cDNA was primed with a Not I - oligo(dT) primer [5'
 TGTTACCAATCTGAAGTGGGAGCGGCCGCTTTTTTTTTTTTTTTTTT 3'],
 double-stranded cDNA was size selected, ligated to Eco RI
 adapters (Pharmacia), digested with Not I and cloned into
 the Not I and Eco RI sites of a modified pT7T3 vector
 (Pharmacia). The retinas were obtained from a 55 year old
 Caucasian and total cellular poly(A)+ RNA was extracted 6
 hrs after their removal. The retina RNA was kindly
 provided by Roderick R. McInnes M.D. Ph.D. from the
 University of Toronto. Library constructed by Bento
 Soares and M.Fatima Bonaldo. "
 BASE COUNT 106 a 84 c 83 g 163 t 1 others
 ORIGIN
 1 tgacttcac ttcttcataa tcagtatctt cgggataata cttctatata tttccttaac
 61 ctttctggag attttgacac tgggttgat attacaaat ctgcatgaac tttgttttct
 121 tctagcaaag atgaactggt ctgttctctc ttgaaataa gatcatttct gttgttggtc

```
181 aaatgatcaa tcttagattc ctctttgcca ttattatcca tgtcttgagc acctctctca
241 tcttcctgct cactgtcttc agcagaactt tcagaagctt gaagtcatt aaaggatcga
301 agtaatttct atggacttaa tatggagcag tatcagagtt tttggcatca gtgagatcca
361 gtttgggatn ccatttccag gagatgggat ttgtctgaaa tgggtgggtt gggccaagcg
421 ccgaagtta cagtttt
```

//

● [link](#) ● [save](#)

LOCUS H39516 481 bp mRNA linear EST 16-AUG-1995
 DEFINITION yo54h10.r1 Soares breast 3NbHBst Homo sapiens cDNA clone
 IMAGE:181795 5' similar to gb:S66427 RETINOBLASTOMA BINDING PROTEIN
 1 (HUMAN);, mRNA sequence.
 ACCESSION H39516
 VERSION H39516.1 GI:915592
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 481)
 AUTHORS Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman
 ,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons,J.,
 Rifkin,L., Rohlfig,T., Soares,M., Tan,F., Trevaskis,E., Waterston
 ,R., Williamson,A., Wohldmann,P. and Wilson,R.
 TITLE The WashU-Merck EST Project
 JOURNAL Unpublished (1995)
 COMMENT Contact: Wilson RK
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@watson.wustl.edu
 Insert Size: 773
 High quality sequence stops: 400
 Source: IMAGE Consortium, LLNL
 This clone is available royalty-free through LLNL ; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 Insert Length: 773 Std Error: 0.00
 Seq primer: M13RP1
 High quality sequence stop: 400.
 FEATURES Location/Qualifiers
source 1..481
 /organism="Homo sapiens"
 /db_xref="GDB:3814995"
 /db_xref="taxon:9606"
 /clone="IMAGE:181795"
 /clone_lib="Soares breast 3NbHBst"
 /sex="Female"
 /dev_stage="adult"
 /lab_host="DH10B (ampicillin resistant)"
 /note="Organ: breast; Vector: pT7T3D (Pharmacia) with a
 modified polylinker; Site 1: Not I; Site 2: Eco RI; 1st
 strand cDNA was primed with a Not I - oligo(dT) primer [5'
 TGTTACCAATCTGAAGTGGGAGCGGCCCTTTTTTTTTTTTTTTTTT 3'],
 double-stranded cDNA was ligated to Eco RI adaptors
 (Pharmacia), digested with Not I and cloned into the Not I
 and Eco RI sites of a modified pT7T3 vector (Pharmacia).
 Library went through one round of normalization to a Cot =
 20. Library constructed by Bento Soares and M.Fatima
 Bonaldo."
 BASE COUNT 103 a 133 c 82 g 163 t
 ORIGIN
 1 cacctctctc cctctccctc cctccctcct ctcttctctc tggatatga ttagatcttc
 61 ttctcttatt tgttttcttt cctatgactg gagggccaaa atgctcaggg ttggtgagt
 121 ggagctggtc taatgtttca ctttcagcaa aatgcctctc tcctttcagg cacagtgaag
 181 atcgtctcag tgtcttctca tctccgtcat caaaaactac agtgtaccaa ctgcctctg
 241 ttagtttatt gataacagct tctgatatg caccatcaag attcttcact tccacaatag
 301 ctctacctt tagtggggccc tttatgtggt catcctgaac ttccactgtt gaagaatcat

361 gtctaaatgt caccttgact ttgacaagtc tttttgctgt cttgatcttg ggcttcacaa
421 aaggctcctc tgtatttagc actcacatca gtgccactg tcaaataagg gaggtcatc
481 a

//

● [link](#) ● [save](#)

LOCUS W37603 427 bp mRNA linear EST 10-OCT-1996
 DEFINITION zc10h08.r1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone
 IMAGE:321951 5' similar to gb:S66427 RETINOBLASTOMA BINDING PROTEIN
 1 (HUMAN);, mRNA sequence.
 ACCESSION W37603
 VERSION W37603.1 GI:1319217
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 427)
 AUTHORS Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman
 ,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons,J.,
 Rifkin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston
 ,R., Williamson,A., Wohldmann,P. and Wilson,R.
 TITLE The WashU-Merck EST Project
 JOURNAL Unpublished (1995)
 COMMENT Contact: Wilson RK
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@watson.wustl.edu
 This clone is available royalty-free through LLNL ; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 Insert Length: 648 Std Error: 0.00
 Seq primer: mob.REGA+ET
 High quality sequence stop: 390.
 FEATURES Location/Qualifiers
 source 1..427
 /organism="Homo sapiens"
 /db_xref="GDB: 1259609"
 /db_xref="taxon:9606"
 /clone="IMAGE:321951"
 /clone_lib="Soares_parathyroid_tumor_NbHPA"
 /tissue_type="parathyroid tumor"
 /dev_stage="adult"
 /lab_host="DH10B (ampicillin resistant)"
 /note="Organ: parathyroid gland; Vector: pT7T3D (Pharmacia
) with a modified polylinker; Site_1: Not I; Site_2: Eco
 RI; 1st strand cDNA was primed with a Not I - oligo(dT)
 primer
 [5'-TGTTACCAATCTGAAGTGGGAGCGGCCGCACCAATTTTTTTTTTTTTTTTTTTT
 TTTT-3'] , double-stranded cDNA was size selected, ligated
 to Eco RI adapters (Pharmacia), digested with Not I and
 cloned into the Not I and Eco RI sites of a modified pT7T3
 vector (Pharmacia). Library went through one round of
 normalization to a Cot = 5. Library constructed by Bento
 Soares and M.Fatima Bonaldo. RNA from sporadic parathyroid
 adenomas was kindly provided by Dr. Stephen Marx, National
 Institute of Diabetes and Digestive and Kidney Diseases,
 NIH."
 BASE COUNT 106 a 112 c 77 g 132 t
 ORIGIN
 1 aaagtgggag ctggttctaatt gtttcacttt cagcaaaatg cctctctcct ttcaggcaca
 61 gtgaagatcg tctcagtgtc ttctcatctc cgatcatcaa aactacagtg taccaactcg
 121 catctggttag tttattgata acagcttcct gatatgcacc atcaagattc ttcacttcca
 181 caatagctcc tacctttagt gggcccttta tgtggtcatc ctgaacttcc actgttgaag
 241 aatcatgtct aaatgtcacc ttgactttga caagtctttt tgctgtcttg atcttggtt

301 cacaaaaggc tcctctgtat ttagcactca catcagtgcc cactgtcaaa tagggaggct
361 catcaagggc cttcatgatg actctgggac caaggatatcc tctaaaacac caggttcagc
421 tgcacct

//

[link](#)[save](#)

LOCUS W67770 562 bp mRNA linear EST 15-OCT-1996
 DEFINITION zd37g11.r1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone
 IMAGE:342884 5', mRNA sequence.
 ACCESSION W67770
 VERSION W67770.1 GI:1376642
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 562)
 AUTHORS Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman
 ,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons,J.,
 Rifkin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston
 ,R., Williamson,A., Wohldmann,P. and Wilson,R.
 TITLE The WashU-Merck EST Project
 JOURNAL Unpublished (1995)
 COMMENT Contact: Wilson RK
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@watson.wustl.edu
 This clone is available royalty-free through LLNL ; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 Insert Length: 1152 Std Error: 0.00
 Seq primer: mob.REGA+ET
 High quality sequence stop: 396.
 FEATURES
 source Location/Qualifiers
 1..562
 /organism="Homo sapiens"
 /db_xref="GDB:1268259"
 /db_xref="taxon:9606"
 /clone="IMAGE:342884"
 /clone_lib="Soares_fetal_heart_NbHH19W"
 /sex="unknown"
 /dev_stage="19 weeks"
 /lab_host="DH10B (ampicillin resistant)"
 /note="Organ: heart; Vector: pT7T3D (Pharmacia) with a
 modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st
 strand cDNA was primed with a Not I - oligo(dT) primer [5'
 TGTTACCAATCTGAAGTGGGAGCGGCCGCATCTTTTTTTTTTTTTTTTTTTT 3']
 double-stranded cDNA was size selected, ligated to Eco RI
 adapters (Pharmacia), digested with Not I and cloned into
 the Not I and Eco RI sites of a modified pT7T3 vector
 (Pharmacia). Library went through one round of
 normalization to a Cot = 5. Library constructed by
 M.Fatima Bonaldo. This library was constructed from the
 same fetus as the fetal lung library, Soares fetal lung
 NbHL19W."
 BASE COUNT 139 a 129 c 98 g 187 t 9 others
 ORIGIN
 1 tttcatcatc ttctctctcc tcttcttcct ctgcttcact gctagagcta tcttctttca
 61 attcagtctt ccagtttagca ggaatagttc tactttttgtg aaattcaagt gcctgttcaa
 121 aggcttgctt taaaacagca tcaggctttg gtgcagtgtc actagtaatt tcatggacat
 181 ctttctcttg aactgaagtâ aattttccat ctttgaaaga tcgaacaaga atattgtcct
 241 tttttacagc aatctcatca ctacaatcag gacaaaccac caatgcagga aaccacagtg
 301 ctttcttttt atccaaacta atgtaatcta cacatacaac tttgcctagt agctcatcaa
 361 tctgtttcct atcatcctca tcttcatcac tggaggatga tgaagactnt tcctctgggt
 421 anatgattag atcttcttcc tcnaatttgg ttttcttct atgactggng tgccaaaatg

481 ctcaggggtt ggtnagtggg gagctgggtc naaatgggtc accttcaggc aaaaaggnc
541 ctctcctttc agggcacngt gg

//

link ● save

LOCUS W67771 568 bp mRNA linear EST 15-OCT-1996
 DEFINITION zd37g11.s1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone
 IMAGE:342884 3' similar to gb:S66427 RETINOBLASTOMA BINDING PROTEIN
 1 (HUMAN);, mRNA sequence.
 ACCESSION W67771
 VERSION W67771.1 GI:1376643
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 568)
 AUTHORS Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman
 ,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons,J.,
 Rifkin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston
 ,R., Williamson,A., Wohldmann,P. and Wilson,R.
 TITLE The WashU-Merck EST Project
 JOURNAL Unpublished (1995)
 COMMENT Contact: Wilson RK
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@watson.wustl.edu
 This clone is available royalty-free through LLNL ; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 Possible reversed clone: polyT not found
 Insert Length: 1152 Std Error: 0.00
 Seq primer: mob.REGA+ET
 High quality sequence stop: 427.
 FEATURES
 source Location/Qualifiers
 1..568
 /organism="Homo sapiens"
 /db_xref="GDB: 1268259"
 /db_xref="taxon:9606"
 /clone="IMAGE:342884"
 /clone_lib="Soares_fetal_heart_NbHH19W"
 /sex="unknown"
 /dev_stage="19 weeks"
 /lab_host="DH10B (ampicillin resistant)"
 /note="Organ: heart; Vector: pT7T3D (Pharmacia) with a
 modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st
 strand cDNA was primed with a Not I - oligo(dT) primer [5'
 TGTTACCAATCTGAAGTGGGAGCGGCCGCATCTTTTTTTTTTTTTTTTTTTT 3']
 double-stranded cDNA was size selected, ligated to Eco RI
 adapters (Pharmacia), digested with Not I and cloned into
 the Not I and Eco RI sites of a modified pT7T3 vector
 (Pharmacia). Library went through one round of
 normalization to a Cot = 5. Library constructed by
 M.Fatima Bonaldo. This library was constructed from the
 same fetus as the fetal lung library, Soares fetal lung
 NbHL19W."
 BASE COUNT 149 a 129 c 164 g 122 t 4 others
 ORIGIN
 1 ggcncgngcc aaacaaaggt accagtcgcc gccgcggagg aggaggagcc ggagcctctg
 61 cctcagcagc cgctggaccc gccgcccttc ttccccatct ctcccccggg cctgctggtt
 121 ttggggggga gaaggagaga ggggactctg gacgtgccag ggtcagatct cgcctccgag
 181 gaaggtgcag ctgaacctgg tgttttagag gataccttgg tcccagagtc atcatgaagg
 241 cccttgatga gcctccctat ttgacagtgg gcactgatgt gagtgcataa tacagaggag
 301 ccttttgtga agccaagatc aagacagcaa aaagacttgt caaagtcaag gtgacattta

```
361 gacatgattc ttcaacagtg gaagttcagg atgaccacat aaagggccca ctaaaggtag
421 gagctattgt ggaagtgaag aatcttgatg gtgcataatca ggaagctggt atcaataaac
481 taacagatgc gaatttngta cactgtagtt ttttgaatga ccggagatga gaagaccctg
541 ngacgatctt cactgtgcct gaaaagag
```

//

link

save

LOCUS W84531 671 bp mRNA linear EST 17-OCT-1996
 DEFINITION zd90h11.s1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone
 IMAGE:356805 3' similar to gb:S66427 RETINOBLASTOMA BINDING PROTEIN
 1 (HUMAN);, mRNA sequence.
 ACCESSION W84531
 VERSION W84531.1 GI:1395643
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens.
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 671)
 AUTHORS Hillier, L., Clark, N., Dubuque, T., Elliston, K., Hawkins, M., Holman
 M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M., Parsons, J.,
 Rifkin, L., Rohlfing, T., Soares, M., Tan, F., Trevaskis, E., Waterston
 R., Williamson, A., Wohldmann, P. and Wilson, R.
 TITLE The WashU-Merck EST Project
 JOURNAL Unpublished (1995)
 COMMENT Contact: Wilson RK
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@watson.wustl.edu
 This clone is available royalty-free through LLNL ; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 Possible reversed clone: polyT not found
 Insert Length: 1159 Std Error: 0.00
 Seq primer: ETPrimer
 High quality sequence stop: 481.
 FEATURES
 source Location/Qualifiers
 1..671
 /organism="Homo sapiens"
 /db_xref="GDB: 1273349"
 /db_xref="taxon:9606"
 /clone="IMAGE:356805"
 /clone_lib="Soares_fetal_heart_NbHH19W"
 /sex="unknown"
 /dev_stage="19 weeks"
 /lab_host="DH10B (ampicillin resistant)"
 /note="Organ: heart; Vector: pT7T3D (Pharmacia) with a
 modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st
 strand cDNA was primed with a Not I - oligo(dT) primer [5'
 TGTACCAATCTGAAGTGGGAGCGGCCGATCTTTTTTTTTTTTTTTTTTTT 3'],
 double-stranded cDNA was size selected, ligated to Eco RI
 adapters (Pharmacia), digested with Not I and cloned into
 the Not I and Eco RI sites of a modified pT7T3 vector
 (Pharmacia). Library went through one round of
 normalization to a Cot = 5. Library constructed by
 M.Fatima Bonaldo. This library was constructed from the
 same fetus as the fetal lung library, Soares fetal lung
 NbHL19W."
 BASE COUNT 181 a 150 c 192 g 143 t 5 others
 ORIGIN
 1 gcgaccgcca aacaaaggtta ccagtcgccg ccgcgggagg aggaggagcc ggagcctctg
 61 cctcagcagc cgctggaccc gccgcccttc ttccccatct cttccncggg cctgctggtt
 121 ttggggggga gaaggagaga ggggactctg gacgtgccag ggtagatct cgctccgag
 181 gaaggtgcag ctgaacctgg tgttttagag gataccttg tcccagagtc atcatgaagg
 241 cccttgatga gcctccctat ttgacagtgg gcactgatgt gagtgctaaa tacagaggag
 301 ccttttgtga agccaagatc aagacagcaa aaagacttgt caaagtcaag gtgacattta

361 gacatgattc ttcaacagtg gaagttcagg atgaccacat aaagggccca ctaaaggtag
421 gagctattgt ggaagtgaag aatcttgatg gtgcataatca ggaagctgtt atcaataaac
481 taaccagatg cgagttggta cactgtagtt tttgatgacg gagatgagaa gacactgaga
541 cgatcttcat gtgcctgaaa gagagaagca tttgctgaaa gtgaacatta gaccagttcc
601 aatnaccanc ctgagcattt ggcaccccag tcatgggaag aaccaattgg ggagagtnta
661 tctntccagg g

//

[link](#) ● [save](#)

LOCUS AA399016 520 bp mRNA linear EST 16-MAY-1997
 DEFINITION zt93d11.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:729909
 5', mRNA sequence.
 ACCESSION AA399016
 VERSION AA399016.1 GI:2052815
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 520)
 AUTHORS Hillier,L., Allen,M., Bowles,L., Dubuque,T., Geisel,G., Jost,S.,
 Kucaba,T., Lacy,M., Le,N., Lennon,G., Marra,M., Martin,J., Moore,B.,
 Schellenberg,K., Steptoe,M., Tan,F., Theising,B., White,Y., Wylie
 ,T., Waterston,R. and Wilson,R.
 TITLE WashU-Merck EST Project 1997
 JOURNAL Unpublished (1997)
 COMMENT Contact: Wilson RK
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@watson.wustl.edu
 This clone is available royalty-free through LLNL ; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 Seq primer: -28m13 rev2 ET from Amersham
 High quality sequence stop: 492.
 FEATURES Location/Qualifiers
 source 1..520
 /organism="Homo sapiens"
 /db_xref="GDB: 5926438"
 /db_xref="taxon:9606"
 /clone="IMAGE:729909"
 /clone_lib="Soares_testis_NHT"
 /sex="male"
 /lab_host="DH10B"
 /note="Vector: pT7T3D-Pac (Pharmacia) with a modified
 polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA
 was prepared from mRNA obtained from Clontech Laboratories
 , Inc., and primed with a Not I - oligo(dT) primer [5'
 TGTTACCAATCTGAAGTGGGAGCGGCCGCCCAATTTTTTTTTTTTTTTT 3'].
 Double-stranded cDNA was ligated to Eco RI adaptors
 (Pharmacia), digested with Not I and cloned into the Not I
 and Eco RI sites of the modified pT7T3 vector. Library
 went through one round of normalization to Cot5, and was
 constructed by Bento Soares and M. Fatima Bonaldo. "
 BASE COUNT 154 a 93 c 102 g 171 t
 ORIGIN
 1 cttcaccttc atccagttcc ataacagctg ctgttatgtt aacttttagct gaaccgtcaa
 61 tgtccagcgc atcacaaaat ggaatgtcag ttgagtgcag gtgacagcag gacttgctaa
 121 agcactttgc acttaatggc tgttgagggc cacttttttt ttatactgca cagtggcaca
 181 aaaaaatatc agacaagcac tattttatat ttaaaaattg tttcttgaca agctgacttg
 241 gcacttaagt gcactttttt atgaagaaaa agtacaatga actgcttttc ctcaagcaat
 301 aattgtttcc aacttgtctg ggaattgtgt gtctggtaac tggaaggcct tccactgtgg
 361 caaatggagg cttttcactg cctgtagaga caatacagta agcatagtta aggggtgggt
 421 cagaacatgt taagataact tactgtatat gtattccctt gtattttgtt aaagctggaa
 481 catttgatat tttccattt atttatgaaa aaatatgaac
 //

[link](#)
[save](#)

LOCUS AA479433 500 bp mRNA linear EST 08-AUG-1997
 DEFINITION zv14d12.r1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:753623
 5', mRNA sequence.
 ACCESSION AA479433
 VERSION AA479433.1 GI:2207989
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 500)
 AUTHORS Hillier, L., Allen, M., Bowles, L., Dubuque, T., Geisel, G., Jost, S.,
 Kucaba, T., Lacy, M., Le, N., Lennon, G., Marra, M., Martin, J., Moore, B.,
 Schellenberg, K., Steptoe, M., Tan, F., Theising, B., White, Y., Wylie,
 T., Waterston, R. and Wilson, R.
 TITLE WashU-Merck EST Project 1997
 JOURNAL Unpublished (1997)
 COMMENT Contact: Wilson RK
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@watson.wustl.edu
 This clone is available royalty-free through LLNL ; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 Seq primer: -28m13 rev2 ET from Amersham
 High quality sequence stop: 470.
 FEATURES Location/Qualifiers
 source 1..500
 /organism="Homo sapiens"
 /db_xref="GDB: 5976486"
 /db_xref="taxon:9606"
 /clone="IMAGE:753623"
 /clone_lib="Soares_NhHMPu_S1"
 /tissue_type="Pooled human melanocyte, fetal heart, and
 pregnant uterus"
 /lab_host="DH10B"
 /note="Organ: mixed (see below); Vector: pT7T3D-Pac
 (Pharmacia) with a modified polylinker; Site_1: Not I;
 Site_2: Eco RI; Equal amounts of plasmid DNA from three
 normalized libraries (melanocyte 2NbHM, pregnant uterus
 NbHPU, and fetal heart NbHH19W) were mixed, and ss circles
 were made in vitro. Following HAP purification, this DNA
 was used as tracer in a subtractive hybridization
 reaction. The driver was PCR-amplified cDNAs from pools of
 5,000 clones made from the same 3 libraries. The pools
 consisted of I.M.A.G.E. clones 260232-265223,
 340488-345479, and 484488-489479."
 BASE COUNT 158 a 76 c 96 g 170 t
 ORIGIN
 1 ggcaacttaag tcactttttt atgaagaaa agtacaatga actgcttttc ctcaagcaat
 61 aattgtttcc aacttgtctg ggaattgtgt gtctggtaac tggaaggcct tccactgtgg
 121 caaatggagg cttttcactg cctgtagaga caatacagta agcatagtta aggggtgggt
 181 cagaacatgt taagataact tactgtatat gtattccctt gtattttgtt aaagctggaa
 241 catttgatat ttttccattt atttatgaaa aaatatgaac ctattttcat ttgtacaagg
 301 taattgtttt ttaaagcaag tcaccttagg gtggctttta ttgtataagt caagcacatg
 361 taataaatcc aaaacctgca gttaacagga tattagacat caatcctggg aaccaaatat
 421 taaagattct ctttaaaaaa gactgaacat gtttacagggt ttgaattagg ctaaaaggtc
 481 ttgcagtggc ttttcatggc

//

THIS PAGE BLANK (USPTO)

● [link](#) ● [save](#)

LOCUS AA262427 461 bp mRNA linear EST 13-AUG-1997
 DEFINITION zsl7e11.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:685484 5' similar to TR:G435776 G435776 RETINOBLASTOMA BINDING PROTEIN 1. ; , mRNA sequence.
 ACCESSION AA262427
 VERSION AA262427.1 GI:1897923
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 461)
 AUTHORS NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
 JOURNAL Unpublished (1997)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-r@mail.nih.gov
 This clone is available royalty-free through LLNL ; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
 Possible reversed clone: similarity on wrong strand
 Insert Length: 1206 Std Error: 0.00
 Seq primer: -28m13 rev2 ET from Amersham
 High quality sequence stop: 422.
 FEATURES
 Location/Qualifiers
 source 1..461
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:685484"
 /clone_lib="NCI_CGAP_GCB1"
 /tissue_type="germinal center B cell"
 /lab_host="DH10B"
 /note="Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA was prepared from human tonsillar cells enriched for germinal center B cells by flow sorting (CD20+, IgD-), provided by Dr. Louis M. Staudt (NCI), Dr. David Allman (NCI) and Dr. Gerald Marti (CBER). cDNA synthesis was primed with a Not I - oligo(dT) primer [5'-TGTTACCAATCTGAAGTGGGAGCGGCCCTCATTTTTTTTTTTTTTTTTT-3']. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library went through one round of normalization, and was constructed by Bento Soares and M. Fatima Bonaldo."
 BASE COUNT 120 a 111 c 64 g 166 t
 ORIGIN
 1 catcatcttc ctctctctct tcttctcttg cttcactgct agagctatct tctttcaatt
 61 cagtctttcca gtttagcagga atagttctac ttttgtgaaa ttcaagtgcc tgttcaaagg
 121 cttgctttta aacagcatca ggctttgggt cagtgtcact agtaatttca tggacatctt
 181 ttcttggaac tgaagtaaat tttccatctt tgaaagatcg aacaagaata ttgtcctttt
 241 ttacagcaat ctcatcacta caatcaggac aaaccaccaa tgcaggaaac cacagtgcct
 301 tctttttatc caaactaatg taatctacac atacaacttt gcctagtagc tcatcaatct
 361 gtttcctatc atcctcatct tcatcactgg aggatgatga agactcttcc tctgggtatat
 421 gattagatct tcttctctta tttgttttct ttcctatgac a
 //

● [link](#) ● [save](#)

LOCUS AA279595 399 bp mRNA linear EST 15-AUG-1997
 DEFINITION zs86f05.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:704385 5' similar to SW:RBB1_HUMAN P29374 RETINOBLASTOMA BINDING PROTEIN 1 ; , mRNA sequence.
 ACCESSION AA279595
 VERSION AA279595.1 GI:1921068
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 399)
 AUTHORS NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
 JOURNAL Unpublished (1997)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-r@mail.nih.gov
 This clone is available royalty-free through LLNL ; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
 Insert Length: 709 Std Error: 0.00
 Seq primer: -28m13 rev2 ET from Amersham
 High quality sequence stop: 328.
 FEATURES
 source Location/Qualifiers
 1..399
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:704385"
 /clone_lib="NCI_CGAP_GCB1"
 /tissue_type="germinal center B cell"
 /lab_host="DH10B"
 /note="Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA was prepared from human tonsillar cells enriched for germinal center B cells by flow sorting (CD20+, IgD-), provided by Dr. Louis M. Staudt (NCI), Dr. David Allman (NCI) and Dr. Gerald Marti (CBER). cDNA synthesis was primed with a Not I - oligo(dT) primer [5'-TGTTACCAATCTGAAGTGGGAGCGGCCGCCTCATTTTTTTTTTTTTTTTTT-3']. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library went through one round of normalization, and was constructed by Bento Soares and M. Fatima Bonaldo."
 BASE COUNT 127 a 87 c 101 g 84 t
 ORIGIN
 1 gcagaggagt cactgcagac tgtggctgaa gaggagagtt gttcaccag ttagaacta
 61 gagctaccac atccagtcaa tgtcgatagt aaaccattg aagaaaaaac agtagaggtc
 121 aatgacagaa aagcagaatt tccaagtagt ggcagtaatt cagtgctaaa taccctcct
 181 actacacctg aatgccttc atcagtcact gtaacagaag gcagccggca gcagtcttct
 241 gtaacagtat cagaaccact ggctccaaac caagaagagg ttcgaagtat caagagttaa
 301 actgatagca caattgaggt ggatagtgtt gctggggagc tccaagacct ccagtctgaa
 361 gggaatagct cgcagcaggt tttgatgcc a gtgtgagct

//

● link ● save

LOCUS AA485189 363 bp mRNA linear EST 15-AUG-1997
 DEFINITION aa40d12.r1 NCI CGAP GCB1 Homo sapiens cDNA clone IMAGE:815735 5' similar to gb:S66427 RETINOBLASTOMA BINDING PROTEIN 1 (HUMAN);, mRNA sequence.
 ACCESSION AA485189
 VERSION AA485189.1 GI:2214408
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 363)
 AUTHORS NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
 JOURNAL Unpublished (1997)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-r@mail.nih.gov
 Tissue Procurement: Louis M. Staudt, M.D., Ph.D., David Allman, Ph.D., Gerald Marti, M.D.
 cDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaldo, Ph.D.
 cDNA Library Arrayed by: Greg Lennon, Ph.D.
 DNA Sequencing by: Washington University Genome Sequencing Center
 Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html
 Seq primer: -28ml3 rev1 ET from Amersham.
 FEATURES
 source
 Location/Qualifiers
 1..363
 /organism="Homo sapiens"
 /db_xref="GDB: 6035293"
 /db_xref="taxon:9606"
 /clone="IMAGE:815735"
 /clone_lib="NCI CGAP GCB1"
 /tissue_type="germinal center B cell"
 /lab_host="DH10B"
 /note="Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA was prepared from human tonsillar cells enriched for germinal center B cells by flow sorting (CD20+, IgD-), provided by Dr. Louis M. Staudt (NCI), Dr. David Allman (NCI) and Dr. Gerald Marti (CBER). cDNA synthesis was primed with a Not I - oligo(dT) primer [5'-TGTTACCAATCTGAAGTGGGAGCGGCCGCCTCATTTTTTTTTTTTTTTTTT-3']. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library went through one round of normalization, and was constructed by Bento Soares and M. Fatima Bonaldo."
 BASE COUNT 108 a 75 c 58 g 122 t
 ORIGIN
 1 tcggcagcag gcacactcct tacattgctt gttaacaact ttctctggca atgcagtctg
 61 aaattcaatg ttggctgatac tacagtactc ctcaaaacca tataagtatt ttttataagc
 121 acatttaaca ttgtatcctg cagctgaatt taagacaggg attccaagat cttggtagac
 181 ttgtttccaa acagctccac tttcaatatt atcaaactcct ccaagtttgt gtacaagtct
 241 gaataactta aagagattca aatttcgata tccaagtaca ggctcgttgt taataggtgt
 301 acctctatct tccataaatt tgtacaattg ctgaagaaag ttctcccttt cttctggaaa
 361 tgg
 //

THIS PAGE BLANK

link save

LOCUS AA296993 271 bp mRNA linear EST 18-APR-1997
 DEFINITION EST112543 Adrenal gland tumor Homo sapiens cDNA 5' end, mRNA sequence.
 ACCESSION AA296993
 VERSION AA296993.1 GI:1949324
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 271)
 AUTHORS Adams,M.D., Kerlavage,A.R., Fleischmann,R.D., Fuldner,R.A., Bult ,C.J., Lee,N.H., Kirkness,E.F., Weinstock,K.G., Gocayne,J.D., White ,O., Sutton,G., Blake,J.A., Brandon,R.C., Man-Wai,C., Clayton,R.A., Cline,T.R., Cotton,M.D., Earle-Hughes,J., Fine,L.D., Fitzgerald ,L.M., Fitzhugh,W.M., Fritchman,J.L., Geoghagen,N.S., Glodek,A., Gnehm,C.L., Hanna,M.C., Hedblom,E., Hinkle,P.S.Jr., Kelley,J.M., Kelley,J.C., Liu,L.-I., Marmaros,S.M., Merrick,J.M., Moreno-Palanques,R.F., McDonald,L.A., Nguyen,D.T., Pelligrino,S.M., Phillips,C.A., Ryder,S.E., Scott,J.L., Saudek,D.M., Shirley,R., Small,K.V., Spriggs,T.A., Utterback,T.R., Weidman,J.F., Li,Y., Bednarik,D.P., Cao,L., Cepeda,M.A., Coleman,T.A., Collins,E.J., Dimke,D., Feng,D.-F., Ferrie,A., Fischer,C., Hastings,G.A., He,W.W. , Hu,J.S., Greene,J.M., Gruber,J., Hudson,P., Kim,A.K., Kozak,D.L., Kunsch,C., Hungjun,J., Li,H., Meissner,P.S., Olsen,H., Raymond,L., Wei,Y.F., Wing,J., Xu,C., Yu,G.L., Ruben,S.M., Dillion,P.J., Fannon ,M.R., Rosen,C.A., Haseltine,W.A., Fields,C., Fraser,C.M. and Venter,J.C.
 TITLE Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence
 JOURNAL Nature 377 (6547 Suppl), 3-174 (1995)
 MEDLINE 96026280
 COMMENT Contact: Kerlavage, AR
 Bioinformatics
 The Institute for Genomic Research
 9712 Medical Center Drive, Rockville, MD 20850 USA
 Tel: 3018699056
 Fax: 3018699423
 Email: arkerlav@tigr.org
 For clone availability, additional sequence and expression information related to this EST, please check the TIGR Human Gene Index (<http://www.tigr.org/tdb/hgi/hgi.html>)
 Seq primer: M13 Reverse.
 FEATURES
 source Location/Qualifiers
 1..271
 /organism="Homo sapiens"
 /db_xref="ATCC (inhost):120417"
 /db_xref="taxon:9606"
 /clone_lib="Adrenal gland tumor"
 /dev_stage="adult"
 /note="Organ: adrenal gland; Vector: pBluescript SK-;
 Site_1: EcoRI; Site_2: XhoI"
 BASE COUNT 124 a 29 c 67 g 51 t
 ORIGIN
 1 attagaatct atacctacac attctgatca ggaaaaagaa gttaacatta aaaaaccaga
 61 agacaatgaa aatctggatg acaaagatga tgacacaact agggtagatg aatccctcaa
 121 cataaaggta gaagctgagg aagaaaaagc aaaatctgga gatgaaacga ataaagaaga
 181 agatgaagat gatgaagaag cagaagagga ggaggaggag gaagaagaag aagaggaaga
 241 aaatcttaag tgattgatgc tgttttcttt t

//

THIS PAGE BLANK (USPTO)